

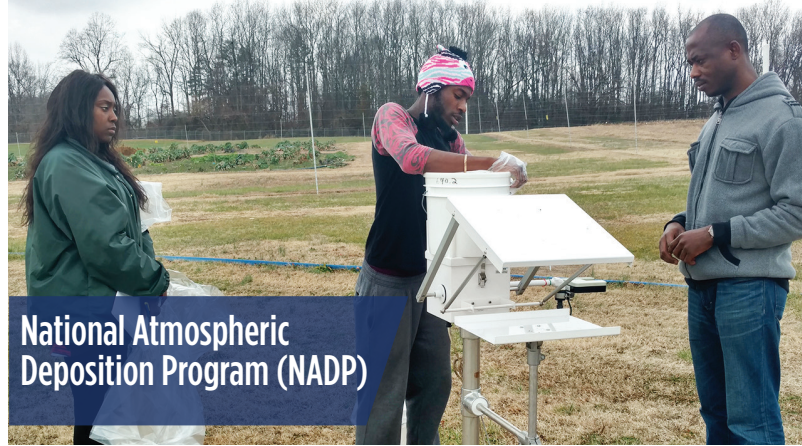
ENVIRONNEWS

Waste Management Institute

UNDER THE LEADERSHIP OF THE COLLEGE OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

INTERDISCIPLINARY ACADEMIC UNITS

- ANIMAL SCIENCES
- AGRICULTURAL EDUCATION
- AGRICULTURAL ECONOMICS
- ARCHITECTURAL ENGINEERING
- BIOLOGY
- BIOLOGICAL ENGINEERING
- BUSINESS MANAGEMENT
- CHEMICAL ENGINEERING
- CHEMISTRY
- CIVIL ENGINEERING
- COMPUTER SCIENCE
- CONSTRUCTION MANAGEMENT & SAFETY
- CURRICULUM & INSTRUCTION
- ECONOMICS
- ELECTRICAL ENGINEERING
- HISTORY
- HUMAN ENVIRONMENT & FAMILY SCIENCE
- INDUSTRIAL ENGINEERING
- JOURNALISM AND MASS COMMUNICATIONS
- LIBERAL STUDIES
- MATHEMATICS
- MECHANICAL ENGINEERING
- NATURAL RESOURCES
- NURSING
- POLITICAL SCIENCE
- PHYSICS
- PSYCHOLOGY
- SOCIOLOGY/SOCIAL WORK



National Atmospheric Deposition Program (NADP)

(L-R) Miranda Jackson, Ronnie Blakeney and Emmanuel Oleka at NADP NC 17 site at North Carolina Agricultural & Technical State University.

NC 17 site operates two monitoring networks: the National Trends Network (NTN) and Mercury Deposition Network (MDN). North Carolina Agricultural and Technical State University (N.C. A&T) students are the site operators. Atmospheric deposition and its effects are monitored at these sites. NADP data is critical to public safety, ecosystem services and environmental policies. ■

UI GreenMetric Ranks N.C. A&T In The Top 7 Percent Internationally for University Sustainability



For the fourth consecutive year, North Carolina Agricultural and Technical State University is ranked among the top 7 percent of universities in the world for university sustainability according to Universitas Indonesia's GreenMetric Ranking of World Universities.

Four hundred and sixty universities were ranked in 2016. The University of California, Davis was ranked as the world's best green campus. N.C. A&T was ranked No. 36.

The 2016 GreenMetric results were computed from information provided by universities online under six categories — infrastructure, energy and climate change (21 percent), waste management (18 percent), water usage (10 percent), transportation (18 percent) and education (18 percent).

The following units contributed information for the 2016 survey: Office of Enrollment Management, Division of Human Resources, Facilities Department, Budget Office, Division of Research and Economic Development, Parking Services, Center for Energy and Training, Campus Enterprises, Energy and Environmental Systems, University Farm and The Interdisciplinary Waste Management Institute (WMI).

"Water, waste, transportation, energy, climate, infrastructure and education challenges present an opportunity for North Carolina Agricultural and Technical State University to mobilize resources and capabilities for developing effective sustainable solutions," said Godfrey Uzochukwu, Ph.D., director of the WMI. ■

Professional Certificate in Campus Sustainability Leadership



The University of Vermont recognized Godfrey Uzochukwu, Ph.D., senior professor and director of N.C. A&T's Interdisciplinary Waste Management Institute (WMI) for successfully completing all the requirements for the Professional Certificate in Campus Sustainability Leadership and granted the Professional Leadership Certificate on June 16, 2017. The primary areas of focus of Sustainability at N.C. A&T include infrastructure, energy, water, waste, transportation and education. "These are what AGGIES DO to achieve environmental goals and efficient campus operations in different impact units of the university and community," said Uzochukwu. ■

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Interdisciplinary Waste Management Institute

- Dr. Godfrey Uzochukwu, Director
- Academic Deans
- Dr. Joe B. Whitehead Jr., Provost
- Dr. Harold L. Martin Sr., Chancellor

The WMI Awards Waste Management Certificates To Students

Fifty four graduating seniors (B.A./B.S.) and graduate students (M.S. and Ph.D.) received the Waste Management Certificate and Advanced Waste Management Certificate in December 2016 and May 2017 at special ceremonies. The students completed their degree and certificate requirements. The keynote speakers were Doris Maxwell, Management Analyst, United States Environmental Protection Agency (Retired) and Desiree Gordon, Program Manager, National Oceanic and Atmospheric Administration (NOAA). The Waste Management Certificate highlights the training of students in environmental security and waste management issues and signals to employers that N.C. A&T graduates are ready to broadly advance waste management and sustainability in their fields. The certificate adds value to the undergraduate training at NC A&T. ■



Desiree Gordon and Chancellor Harold Martin



Erin Hart



Doris Maxwell

Undergraduate Interdisciplinary Certificate Recipients



Charles Stanback and Dr. Uzochukwu

Faisal Abdullah S. Albaqami	Mechanical Engineering
Cameron Armbruster	Chemical Engineering
Fahad Mubarak Al Ati	Mechanical Engineering
Janna Joellen Bailey	Environmental Studies
Juwan Trevette Lewis Byers	Food Science- Nutrition
Shykeria L. Collier	Civil Engineering
Kamaria Chanel Ellerbe	Applied Engineering Technology
Daniel Komla Folley	Civil Engineering
Taylor Hawkins	Civil Engineering
Hashim L.A. Hazelwood	Bio Engineering
Briana L. Holness	Agricultural Education
Samantha Jasmine Hylton	Agricultural & Environmental Systems
Nnenna Ihbuzor	Environmental Studies
Shannon Ivey	General Electronic Music
Miranda L. Jackson	Environmental Studies
Isaiah Sebastian Long	Environmental Studies
Jade Elizabeth Candeah Louallen	Civil Engineering
Amanda Justine Ezinne Mbata	Social Work
Myesha Nebria Huntley McElveen	Food Science
Daryin Lashon Medley	Environmental Studies
Marcus Vernon Miller	Accounting
Rochelle M. Mesubed	Biological Engineering
Rina Kiyangu Mudanyi	Chemical Engineering
Heather Newman	Chemical Engineering
Raheem Outlaw	Landscape Architecture
Isaac N. Scarlett	Civil Engineering
Arreon Jaycle Scruggs	Environmental Studies
Ciara A. Smith	Psychology
Charles Christopher Mathew Stanback	Architectural Engineering
Hannah Rose Talton	Urban & Community Horticulture
Joshua C. Tilley	Civil Engineering
Tiara Kiana Thomas	Civil Engineering
Marcus Tongue	Music Performance
Darren J. White	Civil Engineering
Antonia Wilder	Business Management
Leimonte Rasean Wilson	Industrial & Systems Engineering
John Gilbert Wrenn	Agribusiness
Alicia Rose Wright	Civil Engineering

Graduate Students Receive Advanced Waste Management Certificates

Helga Osei Aku	Agribusiness & Food Industry
Eric Appah	Chemistry
Dominic Bekoe	Natural Resources & Environmental Systems
Michael Tochkwu Emeakaroha	Physics
Kevin Jovan Fisher	Technology Management
Vicki Smith Foust	Energy and Environmental Systems
Amamchukwu Bernard Ilogebe	Mechanical Engineering
McDonald Osatohammwen Isere	Information Technology
Olusola Jeje	Natural Resources & Environmental Systems
Emmanuela Ebele Ndikwam	Chemistry
Emmanuel Oleka	Electrical Engineering
Olapeju Dasola Olujide	Agribusiness & Food Industry
Adeyinka Olufunso Olurin	Information Technology



Chinwe Onyeagoro and Dr. Uzo

Chinwe Pamela Onyeagoro	Agribusiness & Food Industry
Tcha-Bebou Ouro-Bagna	Civil Engineering
Oladele Benard Oyewole	Mechanical Engineering
Mariama Oumarou Sidibe	Computational Science



Tour of Landfill Gas Facility

Environmental and Waste Management Guest Speakers – New Ideas and Perspectives

- **O'Brien & Gere Ltd**
Environmental Remediation – Joseph Perry
- **Waste Industries USA**
Biogas Reactors and Landfill Gas Monitoring Field Trip (Bryan Wuester)
- **Environmental Protection Agency Region 4**
Emergency Response (Tony Moore)
- **City of Greensboro**
Waste Reduction and Recycling (Sheldon Smith, Carle Tori)
- **Hackley and Associates**
Ethics, Character and Leadership (Dr. Lloyd Hackley)
- **Teach For America**
Teaching Opportunities in Public Schools – Joshua Thomas

Pre college Environmental Security and Waste Management Workshop

Thirty nine high school students and teachers participated in the Environmental Security and Waste Management Workshops in June and July 2016. The workshops highlighted challenging environmental issues such as climate change, energy security, food security, water security and education. ■

Career Paths for Graduates Who Received the WMI Certificates

MAJOR

Animal Science
Biology
Business
Chemistry
Communication
Construction Management
Criminal Justice
Economics
Education
Environmental Studies/Science
Engineering
Journalism
Landscape Architecture
Mathematics
Nursing
Occupational Safety and Health
Other
Physics
Political Science
Psychology
Sociology
Social Work

CAREER PATH

Environmental Health and Science
Environmental Biology
Environmental Business
Environmental Chemistry
Environmental Communication
Environmental Safety
Environmental Crimes
Environmental Economics
Environmental Education
Environmental Scientists/Consultants/Specialists
Environmental Engineering
Environmental Journalism
Environ Design/Visual Resource Specialist
Environmental Mathematics/Statistics
Environmental Health/Occupational Safety
Environmental Safety
Environmental Consultants
Environmental Physics
Environmental Policy/Politics
Environmental Psychology
Environmental Sociology
Environmental Social Justice

Global Outreach ▼ ▼ ▼ ▼ ▼

Dr. Godfrey Uzochukwu conducted a workshop on Ethics, Leadership and Waste Management for students and teachers at St. Anthony's High School in Nkpor, Anambra State, Nigeria in May 2017 in Nigeria.



Environmental Leadership at A&T

North Carolina Agricultural and Technical State University has a history of providing leadership in addressing environmental sustainability issues through interdisciplinary centers, institutes and academic programs at all degree levels. These interdisciplinary collaborations have made the university a major contributor to understanding sustainability on a global scale. The university has taken advantage of the Higher Education Sustainability Bill (The Higher Education Opportunity Act-P.L. 110-315) signed by President George W. Bush in 2008. In March 2011, Chancellor Harold Martin Sr. launched a robust recycling program and encouraged everyone to recycle. The goal of the recycling program is to improve the quality of life now and in the future.



Hazmat Training



Student Round Table Discussion and Presentation of Waste Management Issues

Students are addressing the convergence of physical science, social sciences, engineering, technology and life sciences for accelerating environmental solutions.



REUSE

REDUCE

RECYCLE

REDESIGN

REIMAGINE





(L-R) Professors Eze, Uzo and Ugwuoke

Godfrey Uzochukwu, senior professor and director of WMI at N.C. A&T participated in a round table discussion of cocoyam disease and bitter kola production at the University of Nigeria, Nsukka in May 2017. Cocoyam is an important food crop in the continent of Africa. Bitter kola production is underdeveloped as

a food crop in Nigeria. The round table discussion was hosted by professors Edwin Igbokwe (Agricultural Extension), Simon Eze (Crop Sciences) and Kevin Ugwuoke (Crop Protection). Collaboration and cooperation between UNN and N.C. A&T were discussed. ■



World Class WMI Affiliated Faculty

Noteworthy

- Best performing professors and students are affiliated with WMI
- Campus-wide resource for faculty and students.
- Facilitated top 7 percent overall Green Metric – University Sustainability Ranking for N.C. A&T.
- Selected No. 1 by the Environmental Careers Organization.
- Recognized by the Greensboro Chamber of Commerce as an innovative environmental program.
- Top 28 interdisciplinary institute/center in the nation (2013 NCSE report). 360 were profiled.
- Enhances student retention and graduation – scholarships and internships.
- Forum for Big Ideas – created EES Ph.D. program and facilitated Campus Sustainability.
- Forum for exchange of ideas among students from different disciplines.
- Forum for exchange of ideas among faculty members from different disciplines.
- Brings environmental industry leaders to campus.
- Promotes economic growth for the City of Greensboro through national conferences.
- Offers best interdisciplinary support courses.
- Promotes Green Campus – recycling, energy conservation and water conservation.



Happy WMI Graduates



INTERDISCIPLINARY WMI PROGRAM COMMITTEE

Felicia Anike, Ph.D.
 Fafanyo Asiseh, Ph.D.
 Kory Bennett, Ph.D.
 Linda Florence Callahan, Ph.D.
 Heather Colleran, Ph.D.
 Derome Dunn, Ph.D.
 Godfrey Gayle, Ph.D.
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 Ralph Noble, Ph.D.
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 Mary Smith, Ph.D.
 Stephanie Luster Teasley, Ph.D.
 Tobin N Walton, Ph.D.
 Regina Williams, Ph.D.
 Erika Williams, Ph.D.
 Vereda Williams, Ph.D.
 Godfrey Uzochukwu, Ph.D.

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 College of Arts and Humanities
 College of Science and Technology
 College of Engineering
 College of Arts, Humanities and Social Sciences
 The Center for Academic Excellence
 College of Education
 College of Business & Economics
 Interdisciplinary Waste Management Institute

We welcome creative ideas that are suitable for inclusion in the EnviroNews. Send a brief summary of your ideas to: WMI, Carver Hall • 261 North Carolina A&T • Greensboro, NC 27411
 • PHONE: 336 334-7030
 • FAX: 336 334-7399
 • Email: uzo@ncat.edu

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WMI Mission: Enhance awareness and understanding of waste problems and their management in our society and develop programs to improve the quality of life and protect the environment.

North Carolina A&T State University is a land-grant doctoral/research university and AA/EEO employer

This newsletter is a publication of the Waste Management Institute of North Carolina Agricultural and Technical State University. It is intended to increase the awareness of teachers, students, industry, government and community groups about environmental and Waste Management issues.